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(54) AGENT FOR GENETICALLY DIAGNOSING  
 AND/OR TREATING TUMOR USING  
 TUMOR-SPECIFIC ANTIGEN AND NEW  
 APPLICATION OF PROTON PUMP-INHIBITOR  
 AS ANTITUMOR AGENT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an antitumor agent as a new application of a pharmaceutical composition or a proton pump-inhibitor [V-ATPase inhibitor, H<sup>+</sup>/K<sup>+</sup>-ATPase inhibitor, V-ATPase uncoupler (containing H<sup>+</sup>/Cl<sup>-</sup> symporter)] containing, as an active ingredient, tumor-specific antigen peptide, DNA and RNA encoding the peptide, antibody against the peptide,

recombinant vector containing the DNA or RNA and transformant containing the recombinant vector, DNA or RNA hybridizing to the DNA or RNA under a stringent condition (antisense DNA or antisense RNA), or leucocyte reacting with the peptide or binding with an antibody against the protein.

SOLUTION: A tumor-specific antigen peptide that contains at least an amino acid sequence constituting c', c or a subunit of V-ATPase, and tumor-specifically expresses, an antibody against the peptide, and an agent for treatment or diagnosis using DNA or RNA encoding the peptide, as well as a new application of a proton pump-inhibitor as an antitumor agent are provided.

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**Title:** JP2001286284A2: AGENT FOR GENETICALLY DIAGNOSING AND/OR TREATING TUMOR USING TUMOR-SPECIFIC ANTIGEN AND NEW APPLICATION OF PROTON PUMP-INHIBITOR AS ANTITUMOR AGENT

**Derwent Title:** Gene diagnostic agent and gene treating agent for tumors comprises using tumor-specific antigen and proton pump inhibitor as antitumor agent  
[\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A2 Document Laid open to Public inspection <sup>1</sup>

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**Application Number:** JP2000000103966

**IPC Code:** Advanced: A61K 35/14; A61K 38/55; A61K 39/395; A61K 45/00; A61K 48/00; A61P 35/00; C07K 7/06; C07K 7/08; C07K 14/705; C07K 16/28; C12N 1/15; C12N 1/19; C12N 1/21; C12N 5/10; C12N 9/99; C12N 15/09; C12Q 1/68; G01N 33/15; G01N 33/50; G01N 33/574; G01N 33/577; C12P 2/108;  
Core: C07K 7/00; C07K 14/435; C07K 16/18; more...  
IPC-7: A61K 35/14; A61K 38/55; A61K 39/395; A61K 45/00; A61K 48/00; A61P 35/00; C07K 7/06; C07K 7/08; C07K 14/705; C07K 16/28; C12N 1/15; C12N 1/19; C12N 1/21; C12N 5/10; C12N 9/99; C12N 15/09; C12P 2/108; C12Q 1/68; G01N 33/15; G01N 33/50; G01N 33/574; G01N 33/577;

**Priority Number:** 2000-04-05 JP2000000103966

**Abstract:** PROBLEM TO BE SOLVED: To provide an antitumor agent as a new application of a pharmaceutical composition or a proton pump-inhibitor [V-ATPase inhibitor, H<sup>+</sup>/K<sup>+</sup>-ATPase inhibitor, V-ATPase uncoupler (containing H<sup>+</sup>/Cl<sup>-</sup> symporter)] containing, as an active ingredient, tumor-specific antigen peptide, DNA and RNA encoding the peptide, antibody against the peptide, recombinant vector containing the DNA or RNA and transformant containing the recombinant vector, DNA or RNA hybridizing to the DNA or RNA under a stringent condition (antisense DNA or antisense RNA), or leucocyte reacting with the peptide or binding with an antibody



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1 page

against the protein.

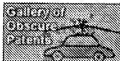
**SOLUTION:** A tumor-specific antigen peptide that contains at least an amino acid sequence constituting c<sup>\*</sup>, c or a subunit of V-ATPase, and tumor-specifically expresses, an antibody against the peptide, and an agent for treatment or diagnosis using DNA or RNA encoding the peptide, as well as a new application of a proton pump-inhibitor as an antitumor agent are provided.

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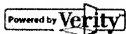
Family: None

Other Abstract  
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- 🔍 **Derwent Title:** Gene diagnostic agent and gene treating agent for tumors comprises using tumor-specific antigen and proton pump inhibitor as antitumor agent
- 🔍 **Original Title:** ☒ JP2001286284A2: AGENT FOR GENETICALLY DIAGNOSING AND/OR TREATING TUMOR USING TUMOR-SPECIFIC ANTIGEN AND NEW APPLICATION OF PROTON PUMP-INHIBITOR AS ANTITUMOR AGENT
- 🔍 **Assignee:** SATO N Individual  
SUZUKI N Individual  
YAMAGUCHI M Individual
- 🔍 **Inventor:** None
- 🔍 **Accession/Update:** 2002-134186 / 200218
- 🔍 **IPC Code:** C12P 21/08 ; C12N 15/09 ; A61K 35/14 ; A61K 38/55 ; A61K 39/395 ; A61K 45/00 ; A61K 48/00 ; A61P 35/00 ; C07K 7/06 ; C07K 7/08 ; C07K 14/705 ; C07K 16/28 ; C12N 1/15 ; C12N 1/19 ; C12N 1/21 ; C12N 5/10 ; C12N 9/99 ; C12Q 1/68 ; G01N 33/15 ; G01N 33/50 ; G01N 33/574 ; G01N 33/577 ;
- 🔍 **Derwent Classes:** B04; D16; S03;
- 🔍 **Manual Codes:** B04-C01G(Polypeptides with 31 or more alpha amino acid residues) , B04-G01 (Antibody defined in terms of antigen general and other) , B04-N02A(Complete amino acid sequence given) , B12-K04(Diagnosis and testing [general]) , B14-H01(Anticancer general and other) , D05-H09(Testing and detection [exc. bacteria, fungi, viruses]) , D05-H11(Antibodies) , D05-H17A6(Production of other specified wild-type protein) , S03-E14A1(Investigation methods for drugs, medicines, pharmaceuticals) , S03-E14H(Investigation methods for biological material) , S03-E14H4(Immunoassay)
- 🔍 **Derwent Abstract:** (JP2001286284A2) **Novelty** - A diagnostic agent/treating agent for tumors comprising:  
(a) at least one protein (I) comprising:  
(i) a fully defined sequence (S1) of 205, 155 or 831 amino acids as given in the specification;  
(ii) an amino acid sequence in which at least one amino acid is deleted, replaced or added in (S1); or  
(iii) a partial sequence of S1; or  
(b) an antibody immunospecific for (I), is new.  
**ACTIVITY** - Cytostatic.  
**MECHANISM OF ACTION** - Proton pump inhibitor. No supporting data is given.  
**Use** - The tumor-specific antigen peptide is useful for treating and preventing cancers.
- Dwg.0/36
- 🔍 **Family:**
- | PDF                                 | Patent         | Pub. Date    | Derwent Update | Pages | Language | IPC Code   |
|-------------------------------------|----------------|--------------|----------------|-------|----------|------------|
| <input checked="" type="checkbox"/> | JP2001286284A2 | * 2001-10-16 | 200218         | 79    | English  | C12N 15/09 |
- Local appls.:

Application Number	Filed	Original Title

JP2000000103966	2000-04-05	AGENT FOR GENETICALLY DIAGNOSING AND/OR TREATING TUMOR USING TUMOR-SPECIFIC ANTIGEN AND NEW APPLICATION OF PROTON PUMP-INHIBITOR AS ANTITUMOR AGENT
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 Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C2002-041550	C		
N2002-101502	N		
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 Title Terms: GENE DIAGNOSE AGENT GENE TREAT AGENT COMPRISE SPECIFIC ANTIGEN PROTON PUMP INHIBIT AGENT

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